



USAG- RC



FY11 Energy Audit Checklist

(Energy Audit No: 11B3440)

Camp/Building No/Bldg SF: Hovey/S-3440/40,672SF

Date: 15/Jun/11

Bldg (energy) manager: **Vacant**

Phone

Type/Usage of Building: Barrack

Email:




Unit/ Organization

Pre-Audit Information


- 1) Building operating hours are from to
- 2) How many people live here?
- 3) How many rooms are here?
- 4) List major energy consuming equipment / functions in your building (e.g. labs, heating/cooling systems)
:
- 5) Other Information:

	Check Point Description	Remark
V	1.Check condition of external insulation	
V	2.Check condition of internal insulation	
V	3.Check condition of ceiling/roof insulation	
V	4.Use double pane glass instead	
V	5.Use Exterior shading such as awnings or blinds	
V	6.Check window operation	
V	7.Check exterior doors has self-closing ability	
V	8.Check brush seals or weather strip on external doors	
V	9.Switch off exterior security lighting during daylight hours	
	10.Switch off all unnecessary light	Turned on unnecessary lighting during the day time.
V	11.Use high- efficiency fluorescent lighting	
V	12.Use Compact Fluorescent Lights(CFLs) instead of incandescent	
-	13.Check domestic hot water setting at least 110°F	
-	14.Check condition of water storage tank insulation	
-	15.Check condition of hot water pipe insulation	
-	16.Check heating thermostats range 72°F (winter), 74°F(summer)	
-	17.Clean fan coil filter	
V	18.Turn off heating /cooling system when not need	
-	19.Check Duct or HVAC pipe insulation damaged or missing	
-	20. Check Chilled water piping insulation	
-	21.Check belt tension on electric motors	
-	22. Check for damper leakage, ensure tight seals	
-	23. Turn off electronic appliance (ex: TV, computer, radio eta.)	

Summary and Action Item

Item	Issue	Description	Action Required
Building Envelope		Good! This is an unoccupied building.	
Lighting		Turned on the lightings in unoccupied building during the all day. It is serious problem. (S-3440)	Service Order Shut down main power to turn off the lightings for energy saving. Service Order No: 20219
Miscellaneous		-Refrigerator uses more energy than any other appliance in a typical household, from 9-25% of the total energy consumption! When the refrigerator is not used, Switch it off to save electricity.	Service Order Unplug unused electronic appliances Or Shut down main power to stop supplying electricity to save energy Service Order No: 20219

Summary and Action Item

Item	Issue	Description	Action Required
Water system		No insulation on the pipe of HVAC systems.	

*Reference

***HVAC SYSTEMS**

***What kind of Heating Equipment is used?**

Title	Company	Capacity	Model No	Year	B/M HP	Nozzle	C/P HP	Ser#
H.W.B	Aldrich Co	648,000 BTU	K730W	9/9/2003				96E-5689

***What kind of Domestic Hot water Heater is used?**

Title	Company	Capacity	Ser No	Year	Storage	GAL	C/P HP	C/P Model
H.W.H	BOCK	560 GPH		3/3/2006		90 Gal		

***What kind of A/C Equipments used?**

Nomenclature	Model #	Ser #	Inst	Cap	Mfr
A/C	CR-U60GG4	024020	4/1/2002	60	Century

***Conclusion**

- **No one is designated to read/record consumption on installed electric meter. It is necessary to monitor monthly electricity consumption and trend line so that occupants can realize how amount of electricity be consumed or saved.**
- **Require “FEWR or Service Order” to correct below findings during energy audit by occupant.**
None
- **On the Spot Corrected (15/JUNE/11)**
 - I. **Shut down main power to stop supplying electricity in unoccupied building.**
Service Order No: 20219
- **Required to appoint and train building (energy) manager to monitor and correct excess energy use and request to repair any detected energy loss.**

***Reference**

- **-ASHRAE ADDENDA (Energy Standard for Buildings except Low Rise Residential Buildings)**
- **-AR 420-1**
- **-Executive order (EO) 13423**
- **-Energy policy Act (EPACT)2005**
- **-Energy Independence Security Act(EISA) 2007**

